

FORM PTO-449

DEPARTMENT OF COMMERCE  
PATENT & TRADEMARK OFFICE

ATTY DOCKET NO.

ALLIA.62F1C4C1

APPLICATION NO

10/780,502

INFORMATION DISCLOSURE STATEMENT BY  
APPLICANT

APPLICANT

Schutt et al.

FILING DATE  
February 17, 2004GROUP  
1616

1618

(USE SEVERAL SHEETS IF NECESSARY)

FILING DATE  
February 17, 2004

EXAMINER INITIAL	D N	O U	C M	U B	M E	E R	N	T	DATE	U.S. PATENT DOCUMENTS	CLASS	SUBCLASS	FILING DATE
										NAME			
10	4	2	7	6	8	8	5		7/7/1981	Tickner et al.	128	660	
	4	4	6	6	4	4	2		8/21/1984	Hilmann et al.	128	653	
	4	6	1	3	3	2	6		9/23/1986	Szwarc	604	89	
	4	6	8	4	4	7	9		8/4/1987	D'Arrigo	252	307	
	4	7	1	8	4	3	3		1/12/1988	Feinstein	128	660	
	4	7	1	8	4	3	3		10/4/1988	Feinstein	128	660.01	
	4	7	7	4	9	5	8		5/23/1989	Berwing et al.	424	9	
	4	8	3	2	9	4	1		7/4/1989	Widder et al.	424	9	
	4	8	4	4	8	8	2		2/6/1990	Mahlowitz et al.	424	426	
	4	8	9	8	7	3	4		5/22/1990	Long, Jr.	424	5	
10	4	9	2	7	6	2	3						

FOREIGN PATENT DOCUMENTS										CLASS	SUBCLASS	TRANSLATION YES
COUNTRY												

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OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

EXAMINER INITIAL		
	1	Wesley & Safar, <i>Acoustic Non-Linearity Due to Micro-Bubbles in Water</i> , Acustica, 22: 177-182 (1969-70)
	2	Alliger, <i>Ultrasonic Disruption</i> , Reprinted from American Laboratory, (October 1975)
	3	Carstensen et al., <i>Ultrasound and Medicine in Biology</i> , 6: 159-168 (1980)
	4	Hagen-Ansert, <i>Textbook of Diagnostic Ultrasonography</i> , Second Edition pp 10-12 (1983)
	5	Berliner, III, <i>Application of Ultrasonic Processors</i> , Biotechnology Laboratory, pp 46-52 (March, 1984)
	6	Mattrey, M.D., <i>Abstract, Association of University Radiologists, 35<sup>th</sup> Annual Meeting</i> (March 22-27, 1987)
	7	Mattrey, M.D., <i>Perfluorochemicals as US Contrast Agents for Tumor Imaging and Hepatosplenography: Preliminary Clinical Results</i> Radiology 163: 339-343 (1987)

EXAMINER

HARDY

DATE CONSIDERED

5/16/05

\*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED.  
INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

PTO-1449 DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE	ATTY DOCKET NO. ALLIA.62F1C4C1	APPLICATION NO. 10/780,502
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)	APPLICANT Schutt et al.	
	FILING DATE February 17, 2004	GROUP 1616

EXAMINER INITIAL									U.S. PATENT DOCUMENTS		CLASS	SUBCLASS	FILING DATE
	D N	O U	C M	U B	M E	E R	N	T	DATE	NAME			
	4	9	5	7	6	5	6		9/18/1990	Cerny et al.	252	311	
	5	0	8	8	4	9	9		2/18/1992	Unger	128	667.02	
	5	1	2	3	4	1	4		6/23/1992	Unger	128	654	
	5	1	4	1	7	3	8		8/25/1992	Rasor et al.	424	2	
	5	1	4	9	3	1	9		9/22/1992	Unger	604	22	
	5	1	5	5	2	1	5		10/13/1992	Ranney	534	16	
	5	1	9	6	1	8	3		3/23/1993	Yudelson et al.	424	9	
	5	2	0	5	2	8	7		4/27/1993	Erbel et al.	128	632	
	5	2	0	5	2	9	0		4/27/1993	Unger	128	653.4	
	5	2	7	1	9	2	8		12/21/1993	Schneider et al.	424	9	

EXAMINER INITIAL									FOREIGN PATENT DOCUMENTS		CLASS	SUBCLASS	TRANSLATION YES NO
	D N	O U	C M	U B	M E	E R	N	T	DATE	COUNTRY			
	9	1	1	2	8	2	3		9/1991	PCT			
	9	1	1	5	9	9	9		10/1991	PCT			
	9	2	2	2	2	4	7		12/1992	PCT			
	9	3	0	0	9	3	0		1/1993	PCT			
	9	3	0	1	7	1	2		2/1993	PCT			
	9	3	0	3	6	7	1		3/1993	PCT			

EXAMINER INITIAL		OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
	8	Mattrey, M.D., <i>Perfluorooctylbromide: A New Contrast Agent for CT, Sonography, and MR Imaging</i> Manuscript, 1988
	9	De Jong, et al., <i>Absorption and Scatter of Encapsulated Gas Filled Microspheres: Theoretical Considerations and Some Measurements</i> , Ultrasonics 30 (3): 95-103 (1992)
	10	Schrope et al., <i>Simulated Capillary Blood Flow Measurement Using a Nonlinear Ultrasonic Contrast Agent</i> , Ultrasonic Imaging 14: 134-158 (1992)
	11	<del>Liposomes, From Biophysics to Therapeutics Edited by Mark J. Ostro, Marcel Dekker, Inc. New York pp 2-8, 17-21, 74, and 105.</del>
	12	<del>Hunter et al., <i>Foundation of Colloid Science</i>, Clarendon Press, Oxford pp 20 &amp; 22</del>
	13	<del>Rae, II, <i>Peripheral Vascular Doppler Examinations</i>, Textbook of Diagnostic Ultrasonography pp 323-325</del>
	14	De Jong et al., <i>Principles and Recent Developments in Ultrasound Contrast Agents</i> , Ultrasonics, 29: 324-330 (1991)

EXAMINER H. A. ATLEY	DATE CONSIDERED 5/10/05
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

FORM PTO-449 U.S. DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE	ATTY DOCKET NO. ALLIA.62FIC4C1	APPLICATION NO. 10/780,502
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)	APPLICANT Schutt et al.	
	FILING DATE February 17, 2004	GROUP 1616

										U.S. PATENT DOCUMENTS			
EXAMINER INITIAL	D N	O U	C M	U B	M E	E R	N	T	DATE	NAME	CLASS	SUBCLASS	FILING DATE
H	5	3	1	5	9	9	7		5/31/1994	Widder et al.	128	653.3	
	5	3	3	3	6	1	3		8/2/1994	Tickner et al.	128	662.02	
	5	3	3	4	3	8	1		8/2/1994	Unger	424	9	
	5	3	4	8	0	1	6		9/20/1994	Unger et al.	128	662.02	
	5	3	5	2	4	3	5		10/4/1994	Unger	424	9	
	5	3	5	2	4	3	6		10/4/1994	Wheatley et al.	424	9	
	5	1	9	5	5	2	0		5/23/1993	Schlieff, et al.	128	660.01	
	5	5	8	5	1	1	2		12/17/1996	Unger et al.	424	450	
	5	5	3	6	4	8	9		7/16/1996	Lohrmann et al.	424	9.52	
	4	5	7	2	2	0	3		2/25/1986	Feinstein	128	661	

										FOREIGN PATENT DOCUMENTS			
EXAMINER INITIAL	D N	O U	C M	U B	M E	E R	N	T	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
H	0	5	5	4	2	1	3		8/1993	Europe			
	9	3	2	5	2	4	2		12/1993	PCT (abstract & claims)			
	0	4	5	8	7	4	5		9/1994	Europe			
	9	4	2	1	1	7	5		9/1994	PCT			
	9	0	0	1	9	5	2		3/1990	WO			
H	WO	8	9	0	6	9	7	8	8/25/1989	Australia			

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)												
H	15	Greer, <i>First Ultrasound Contrast Agent Awaits OK from FDA</i> , Advance for Radiologic Science Professionals pp 3-5 (1993)											
	16	Kitagawa et al., Biological Abstracts 63: 6392 (1977)											
	17	Keough et al. Biological Abstracts 81: 105308 (1986)											
	18	Matsuda et al. <i>Contrast Echocardiography of the Left Heart by Intravenous Injection of Perfluorochemical Emulsion</i> J. of Cardiology 13(4): 1021-1028 (1983)											
	19	Sunamoto et al. <i>Liposomal Membranes</i> J. Biochem. 88: 1219-1226 (1980)											
	20	Mattrey, R.F., M.D. <i>Perfluorooctylbromide: A Liver/Spleen-Specific and Tumor-Imaging Ultrasound Contrast Material</i> Radiology 145(3): 759-762 (1982)											
H	21	Goldberg et al., <i>Ultrasound in Med. &amp; Biol.</i> 20: 319-333 (1994)											

EXAMINER HARTLEY	DATE CONSIDERED 5/10/05
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

FORM PTO-449 U.S. DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE	ATTY DOCKET NO. ALLIA.62F1C4C1	APPLICATION NO. 10780,502
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)	APPLICANT Schutt et al.	
	FILING DATE February 17, 2004	GROUP 1616

										U.S. PATENT DOCUMENTS			
EXAMINER INITIAL	D N	O U	C M	U B	M E	E R	N	T	DATE	NAME	CLASS	SUBCLASS	FILING DATE
W	5	4	1	0	5	1	6		4/25/1995	Uhlendorf et al.	367	7	
	4	6	5	8	8	5	6		4/14/1987	Rasor et al.	424	9	
	4	9	0	4	4	7	9		2/27/1990	Illum	424	490	
	4	9	2	5	6	7	8		5/15/1990	Ranney	424	493	
	5	1	0	8	7	5	9		4/28/1992	Ranney	424	493	
	5	1	8	6	9	2	2		2/16/1993	Shell et al.	128	654	
	5	1	9	0	9	8	2		3/2/1993	Erbel et al.	521	56	
	5	3	0	5	7	5	7		4/26/1994	Unger et al.	128	662.02	
	5	3	1	0	5	4	0		5/10/1994	Giddey et al.	424	9	
	5	3	1	5	9	9	8		5/31/1994	Tachibana et al.	128	660.01	
A	5	3	7	6	3	8	0		12/27/1994	Kikuchi et al.	424	450	




										FOREIGN PATENT DOCUMENTS			
EXAMINER INITIAL	D N	O U	C M	U B	M E	E R	N	T	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
W	WO	9	2	2	2	2	4	9	12/23/1992	PCT			
	WO	9	4	1	6	7	3	9	8/4/1994	PCT			
	WO	9	5	1	6	4	6	7	6/22/1995	PCT			
	1	2	3	2	3	5		B1	10/31/1984	EPO			
	1	3	1	5	4	0		A2	1/16/1985	EPO (abstract and translation of the claims)			Claims
	2	3	1	0	9	1		A1	8/5/1987	EPO			
	5	8	6	8	7	5		A1	2/1/1989	EPO			No
	3	2	0	4	3	3		A3	6/14/1989	EPO (Abstract and translation of claims)			Claims
	8	9	0	5	1	6	0		6/15/1989	PCT			Abstract

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)												
W	22	Schrope and Newhouse, <i>Ultrasound in Med. &amp; Biol.</i> 19:567-579 (1993)											
	23	Mattrey, <i>Art. Cells, Blood Subs., and Immob. Biotech.</i> 22:295-313 (1994)											
	24	Peter N. Burns, <i>Radiologica Medica</i> 87: 71-82 (Suppl. 1 al. n. 5, 1994)											

EXAMINER J. M. RILEY	DATE CONSIDERED 5/10/05
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

FORM PTO-449 U.S. DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE	ATTY DOCKET NO. ALLIA.62F1C4C1	APPLICATION NO. 10780,502
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)	APPLICANT Schutt et al.	
	FILING DATE February 17, 2004	GROUP 1616

										U.S. PATENT DOCUMENTS			
EXAMINER INITIAL	D N	O U	C M	U B	M E	E R	N	T	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	5	3	8	0	5	1	9		1/10/1995	Schneider et al.	424	9	
	5	3	9	3	5	2	4		2/28/1995	Quay	424	9	
	5	4	0	9	6	8	8		4/25/1995	Quay	424	9	
	5	4	1	3	7	7	4		5/5/1995	Schneider et al.	424	9.51	
	5	5	5	6	6	1	0		9/17/1996	Yan et al.	424	9.52	
	5	5	5	8	0	9	4		9/24/1996	Quay	128	662.02	
	5	5	5	8	8	5	3		9/24/1996	Quay	424	9.5	
	5	5	5	8	8	5	4		9/24/1996	Quay	424	9.52	
	5	5	5	8	8	5	5		9/24/96	Quay	424	9.5	
	5	5	5	8	8	5	6		9/24/96	Klaveness et al.	424	9.52	
	5	5	5	8	8	5	7		9/24/96	Klaveness et al.	424	9.37	


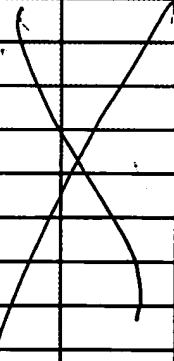
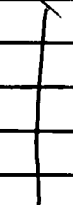

										FOREIGN PATENT DOCUMENTS			
EXAMINER INITIAL	D N	O U	C M	U B	M E	E R	N	T	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	3	0	3	5	1	8	9		8/25/1989	Australia			
	9	3	0	0	9	3	0		1/21/1993	PCT			
	9	3	0	2	7	1	2		2/18/1993	PCT			
	9	3	0	5	8	1	9		4/1/1993	PCT			
	9	3	0	6	8	6	9		4/15/1993	PCT			
	9	4	0	1	1	4	0		1/20/1994	PCT (Abstract and translation of claims)			Claims
	9	4	0	6	4	7	7		3/31/1994	PCT			
	9	4	0	8	7	0	7		4/28/1994	PCT			
	9	4	0	9	7	0	3		5/11/94	PCT			Claims
	9	4	0	9	8	2	9		5/11/1994	PCT			
	6	0	6	6	1	3		A1	7/20/1994	EPO			
	9	4	1	6	7	3	8		8/4/1994	PCT			

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)											
	25	Burkard et al. <i>Simulation of Exchanges of Multiple Gases in Bubbles in the Body Respiration Physiology</i> 95:131-145 (1994)										
	26	Burkard et al. <i>Oxygen Transport to Tissue by Persistent Bubbles: Theory and Simulations Modeling in Physiology</i> pp 2874-2878 (1994)										

EXAMINER 	DATE CONSIDERED 5/10/05
* EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

FORM PTO-3449 U.S. DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE	ATTY DOCKET NO. ALLIA.62F1C4C1	APPLICATION NO. 10/780,502
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)	APPLICANT Schutt et al.	
	FILING DATE February 17, 2004	GROUP 1616

										U.S. PATENT DOCUMENTS			
EXAMINER INITIAL	D N	O U	C M	U B	M E	E R	N	T	DATE	NAME	CLASS	SUBCLASS	FILING DATE
②	5	4	6	9	8	5	4		11/28/1995	Unger et al.			
	5	5	4	2	9	3	5		8/6/1996	Unger et al.			
	5	7	0	5	1	8	7		1/6/1998	Unger et al.			
	5	6	3	9	4	4	3		6/17/1997	Schutt et al.			
	5	8	0	4	1	6	2		9/8/1998	Kabalnov et al.			
	6	1	3	9	8	1	9		10/31/2000	Unger et al.			
②	6	1	9	3	9	5	2		2/27/2001	Kabalnov et al.			

										FOREIGN PATENT DOCUMENTS			
EXAMINER INITIAL	D N	O U	C M	U B	M E	E R	N	T	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	2	0	7	7	3	8	3		9/1992	Canada			
	9	4	2	8	7	9	7		12/1994	PCT			
	9	4	2	8	9	3	9		12/1994	PCT			
	0	6	3	3	0	3	0	A1	7/1994	EPO			
	9	2	1	1	8	7	3		7/1992	WO			
	6	5	2	8	0	3	B		9/1994	Australia			
	9	6	2	8	0	9	0		9/1996	WO			

EXAMINER INITIAL		OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)												
NO DATE	②	27	<del>Feinstein et al. Two-Dimensional Contrast Echocardiography: I. In Vitro Development and Quantitative Analysis of Echo Contrast Agents Development and Quantitative Analysis of Echo Contrast Agents</del>											
	②	28	Long, et al. An Overview of Perfluorocylbromide - Application As A Synthetic Oxygen Carrier And Imaging Agent For X-Ray, Ultrasound And Nuclear Magnetic Resonance Symposium on Blood Substitutes pp 411-420 (1989)											
	②	29	Wiley et al. Encyclopedia of Chemical Technology pp 856-857 (1980)											
	②	30	J H Simmons Physical Chemistry of Fluorocarbons Fluorine Chemistry pp 133-229 (1964)											
	②	31	D.D. Lawson et al. Methods for the Estimation of Vapor Pressures and Oxygen Solubilities of Fluorochemicals for Possible Application in Artificial Blood Formulations (1978)											
	②	32	Kabalnov et al. Dissolution of Multicomponent Microbubbles in the Bloodstream: I. Theory Ultrasound in Medi. & Biol:24 739-749 (1998)											

EXAMINER HARTLEY	DATE CONSIDERED 5/10/05
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE	ATTY DOCKET NO. ALLIA.62F1C4C1	APPLICATION NO. 10780,502
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)	APPLICANT Schutt et al.	
	FILING DATE February 17, 2004	GROUP 1616

										U.S. PATENT DOCUMENTS			
EXAMINER INITIAL	D N	O U	C M	U B	M E	E R	N	T	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	5	2	5	5	6	8	3		10/26/1993	Monaghan			
	5	5	5	2	1	3	3		09/03/1996	Lambert et al.			

										FOREIGN PATENT DOCUMENTS			
EXAMINER INITIAL	D N	O U	C M	U B	M E	E R	N	T	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

EXAMINER INITIAL		OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)											
	33	Burns et al., Harmonic Imaging: New Imaging and Doppler Method for Contrast-enhanced US, <i>Radiology</i> , 1992											
	34	Forsberg, et al., In Vivo Application of Contrast-enhanced Harmonic Imaging, <i>Radiology</i> , 1993											
	35	Nanda, Meeting Report: Second Biennial Scientific Congress of the International Society of Cardiovascular Ultrasound, World Congress on Echocardiography and Vascular Ultrasound, 1994											

EXAMINER 	DATE CONSIDERED 5/10/05
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